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(54) CATALYST FOR PURIFYING EXHAUST GAS

(57)Abstract:

PURPOSE: To obtain the title catalyst having excellent activity and heat resistance by incorporating Pd into the composite oxide of defective perovskite having $\geq 10\text{m}^2/\text{g}$ specific surface while 10W50% Pd is dissolved and the balance Pd is deposited.

CONSTITUTION: From 0.06 to 0.18wt% Pd is incorporated into the composite oxide of defective perovskite having $\geq 10\text{m}^2/\text{g}$ specific surface and shown by the formula (where $0.1 < x < 0.3$, M is 1 or ≥ 2 kinds of transition metals such as Co and Ni). From 10 to 50% of the contained Pd is dissolved in the composite oxide of defective perovskite, and the balance Pd is deposited on the oxide of defective perovskite as PdO or Pd to obtain the catalyst for purifying exhaust gas. The catalyst has excellent activity in purifying CO, HC, and NO_x, and the purification rate of NO_x is not reduced under varied air/oil ratios in an NO_x-enriched atmosphere. Further more, even if the catalyst is used at $\geq 900^\circ \text{C}$ for a long time, the extent of specific surface is not reduced, the purification activity is not deteriorated, and high-temp. durability is demonstrated.

Lanthanide Series MO₃

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